

Southern California Association of Governments

2008 Regional Transportation Plan (RTP) Update

Preliminary Needs Assessment Freeway Congestion

Los Angeles, California
March 15, 2007

System Metrics Group, Inc.

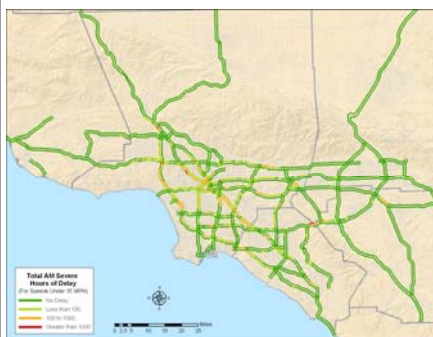
Today, we update the freeway mobility needs assessment

- At the last TAC meeting (2/14/07), we presented a preliminary assessment of PM Peak Period model freeway results
- We received feedback during that meeting, and additional comments were received by email
- We received an updated PM peak period model and the AM peak period model
- Needs were identified using:
 - Primarily SCAG Base Year AM & PM Peak Period 2003 Travel Demand Model
 - Attempted to identify segments totaling at least 33% of peak period delay
 - Aggregated segments to corridor level by fwy-to-fwy, then modified based on further analysis
 - Caltrans HICOMP to verify congestion locations (GIS matching)
 - PeMS, where applicable to identify specific locations (visual for top congested segments)
- We considered both speeds and delay to identify congested areas
- For each county, we identified the worst congested areas (corridor based) to arrive at least 33% of total county delay for the period
- This analysis used revised segmentation based on new analysis of the model

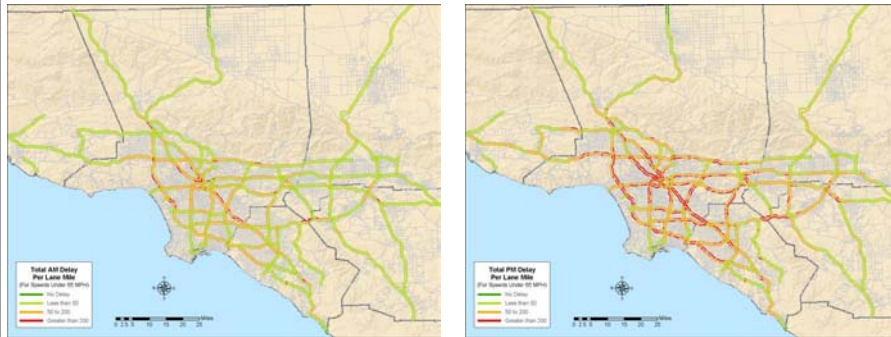
SCAG 2003 Model Regional AM & PM Peak Period Speeds



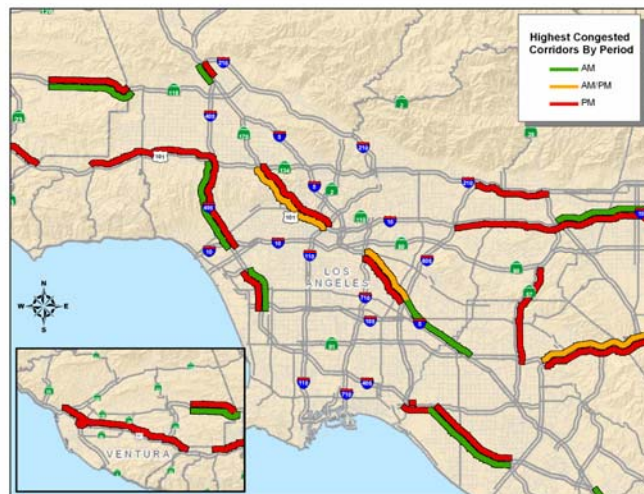
SCAG 2003 Model Regional AM & PM Peak Period Severe Delay (@35mph)



SCAG 2003 Model Regional AM & PM Peak Period Delay per Lane-Mile



Major Los Angeles and Ventura Counties Congested Areas



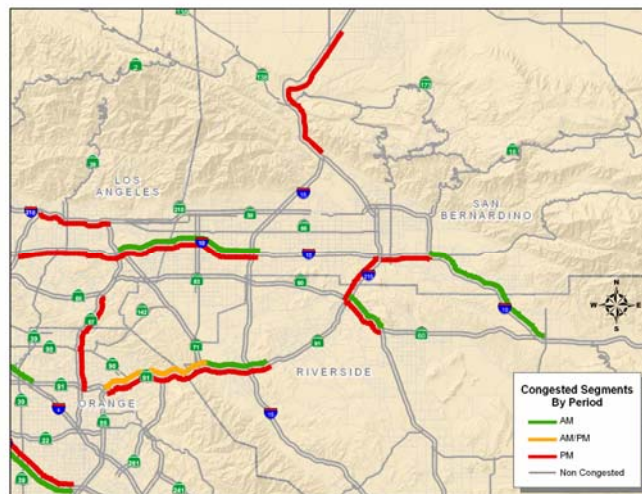
Major Orange County Congested Areas



6

System Metrics Group, Inc.

Major Riverside and San Bernardino County Congested Areas



7

System Metrics Group, Inc.

Major Los Angeles County Congested Areas

PERIOD	COUNTY	ROUTE	DIR	LOCATION
AM	Los Angeles	405	SB	US-101 to I-10
AM/PM		101	SB	US-101/SR-134 to I-110
AM		405	NB	I-105 to SR-90/Marina Freeway
AM/PM		5	NB	I-605 to I-710
AM		5	SB	I-210 to I-405
		5	NB	SR-91 to I-605
		101	NB	I-110 to US-101/SR-134
PM		405	SB	SR-90/Marina Freeway to I-105
		5	SB	I-710 to I-605
		405	NB	I-10 to US-101
		101	NB	I-405 to Las Virgenes Rd
		210	EB	SR-57 to I-605
		10	EB	SR-57 to I-605
		5	NB	I-405 to I-210

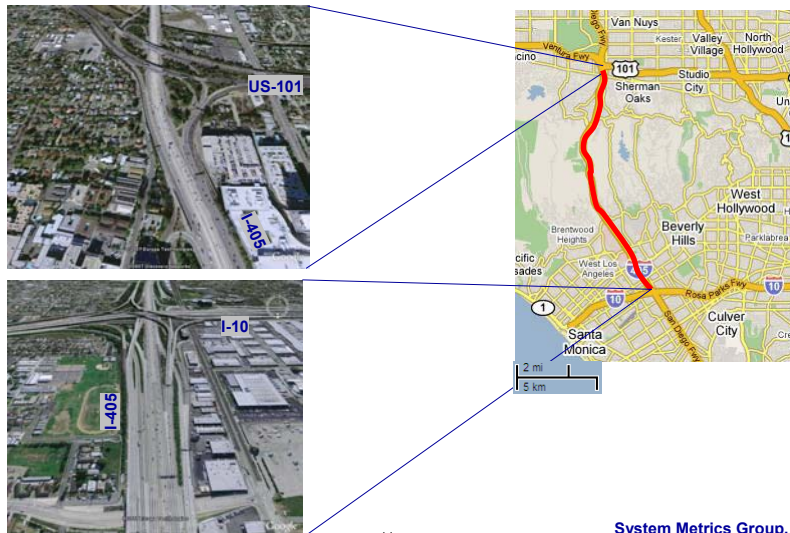
Major AM Period Congested Areas in Other Counties

PERIOD	COUNTY	ROUTE	DIR	LOCATION
AM	Orange	91	WB	SR-71 to SR- 55
		5	NB	SR-73 to I-405
		405	SB	SR-22/I-405 to SR-73
AM/PM	Riverside	91	WB	SR-71 to SR- 55
AM		215	NB	SR-60 to SR-91
		91	WB	McKinley St to SR-71
AM	San Bernardino	10	WB	I-15 to SR-71/SR-57
		10	WB	I-10 to SR-30
AM	Ventura	118	EB	LA/VEN Co Line to 1st St

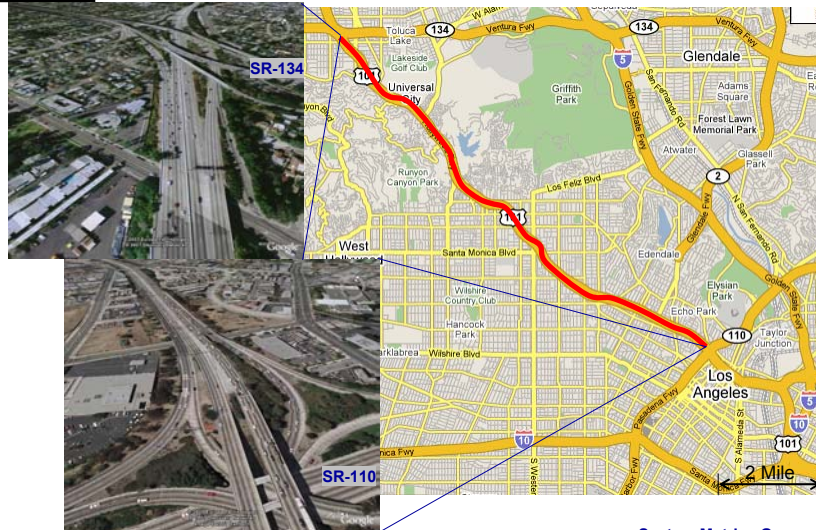
Major PM Period Congested Areas in Other Counties

PERIOD	COUNTY	ROUTE	DIR	LOCATION
PM	Orange	405	NB	SR-73 to SR-22/I-405
		405	SB	I-605 to SR-22/I-405
		91	EB	SR-55 to SR-71
		57	NB	SR-91 to SR-60
AM/PM	Riverside	91	WB	SR-71 to SR- 55
PM		91	EB	SR-71 to McKinley St
		91	EB	SR-55 to SR-71
		215	SB	SR-91 to SR-60
PM	San Bernardino	10	EB	SR-71/SR-57 to I-15
		15	NB	I-215/I-15 to Phelan St/Main St
		215	SB	I-10 to SR-60/I-215/SR-91
		10	EB	I-215 to SR-30
PM	Ventura	118	WB	1st St to LA/VEN Co Line
		101	NB	LA/VEN Co Line to Lewis Rd
		101	NB	Lewis Rd to S126

Los Angeles – I-405 from I-10 to US-101 (SB AM/NB PM)



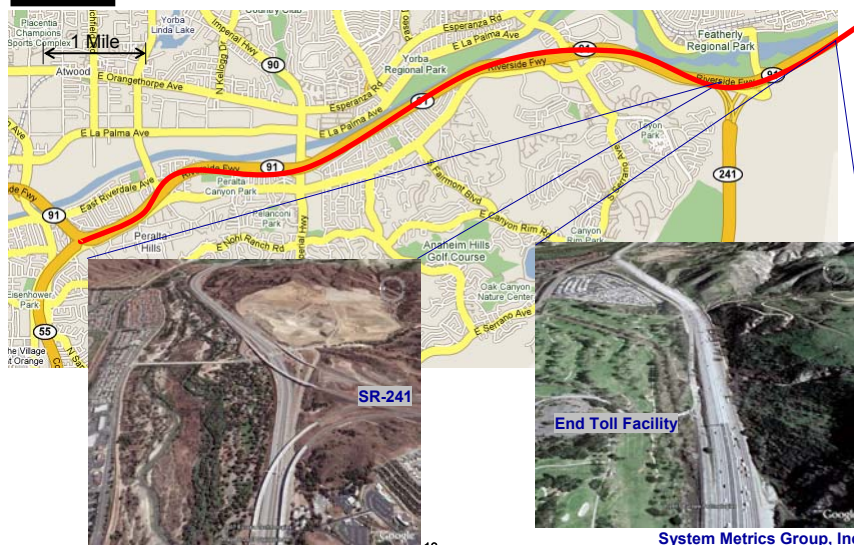
Los Angeles – US-101 from SR-110 to SR-134 (SB AM/PM & NB PM)



12

System Metrics Group, Inc.

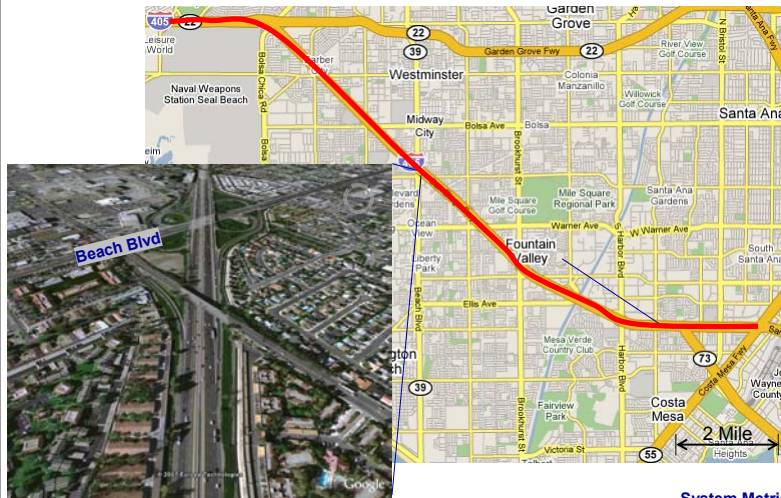
Orange – SR-91 from SR-55 to Riverside County (WB AM/EB PM)



13

System Metrics Group, Inc.

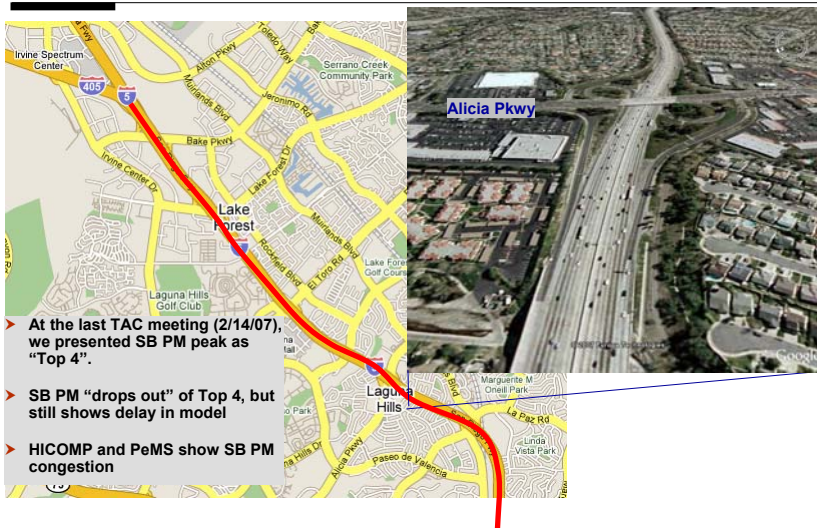
Orange – I-405 from SR-55 to SR-22 (SB AM/NB PM)



14

System Metrics Group, Inc.

Orange – I-5 SR-73 to Alicia Pkwy (NB AM)



15

System Metrics Group, Inc.

Riverside – SR-91 from I-15/McKinley to Orange County (Both Periods & Both Directions)



Riverside – I-215/SR-60 from 215/60 to SR-91 (NB AM & SB PM)



San Bernardino – I-10 from LA County to I-15 (WB AM & EB PM)



18

System Metrics Group, Inc.

San Bernardino – I-10 WB from Riverside Co. to Redlands (WB AM)

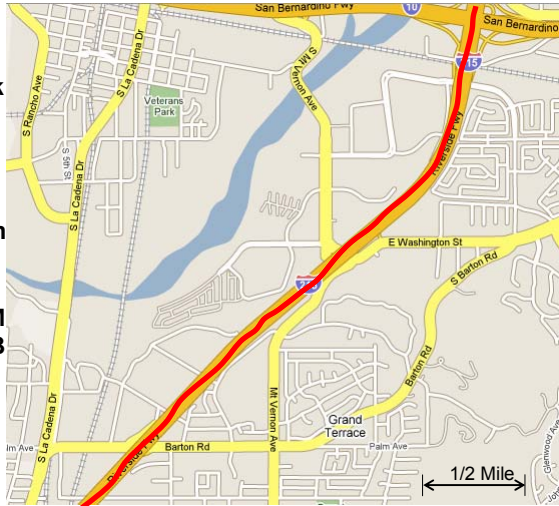


19

System Metrics Group, Inc.

San Bernardino – I-215 from Riverside County to I-10 (SB PM)

- At the last TAC meeting (2/14/07), we presented NB PM peak as “Top 4”
- NB PM “drops out” of Top 4 in this analysis, but still shows delay in model
- HICOMP shows NB PM congestion, but no SB PM congestion



20

System Metrics Group, Inc.

San Bernardino – I-15 NB from I-15/215 to Hesperia (NB PM)

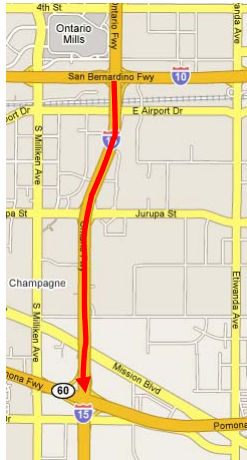
- At the last TAC meeting (2/14/07), we did not present this PM segment as “Top 4”
- HICOMP nor PeMS do not have data for this segment



21

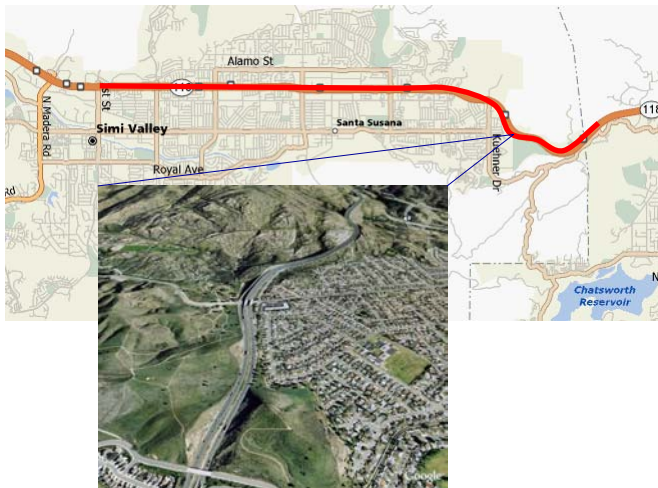
System Metrics Group, Inc.

San Bernardino – I-15 SB from I-10 to RIV Co. Line



- At the last TAC meeting (2/14/07), we presented this PM segment as “Top 4”
- HICOMP shows congestion on this segment, but it is relatively small compared to other segments

Ventura – SR-118 from Simi Valley to LA County (EB AM & WB PM)



Next Steps

- We need to incorporate your feedback on this latest model
- We also need to consider future conditions (e.g., some congested areas will likely worsen more than others)
- We also want to start updating preservation needs and need counties and cities to share their latest and greatest pavement condition and needs data. The same applies to transit operators.
- Productivity losses will also be computed where we have detection
- Safety statistics will also be compiled and presented to the extent possible
- All this has to occur over the next couple of months so we can maintain our overall schedule.